

NOTES ON THE HETEROCERA OF CALCUTTA

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PART II

(Continued from p. 422 of this volume)

The present part deals with the Agrotidae, formerly Noctuidae. I have divided the family up into its present sub-families. Hampson's divisions have now been revised in many cases and, as many of Hampson's names are no longer current, I have added the modern name.

It has occurred to me that there is one point that needs clarification in this series of papers. The records of relative abundance refer to the months of occurrence only. Thus an insect that was common in, say, April, and not recorded for the rest of the year, would be shewn as 'Common. iv.' whilst another, that occurred rarely all through the year would be shewn as 'Rare. Records for all months,' although more specimens of the latter might occur taking the year as a whole than of the former. Unless otherwise stated, all records are for light.

AGROTIDAE

LUXOINAE

Agrotis biconica Koll.—Common. Larvae feed on grass. Records for iv, vi and vii. Now *Euxoa spinifera* Hbn.

A. ypsilon Rott.—Common in some years, rare in others. Records for i, ii, and xii. Now *Rhyacia*.

HADENINAE

Polytela gloriosae F.—Imagines rare, larvae common on Liliaceae and Amaryllidaceae. Recorded in vi, vii and viii.

Leucania irrorata Moore—Uncommon. Records for i, v, and xii. Now *Sideridis insularis* Btlr.

L. irregularis Wlk.—Common. Recorded in i, ii, iv, vi, xi and xii. Now *Sideridis*.

L. exempta Wlk.—Common. Records for all months except v, vi and ix. Now *Sideridis yu* Guen.

L. venalba Moore—Common. Records for i to iii, vii and x to xii. Now *Sideridis*.

L. unipuncta Haw.—Uncommon. Recorded in i and x to xii. Now *Sideridis*.

AMPHIPYRINAE

- Magusa tenebrosa** Moore—Not uncommon, the nomino-typical form and also ff. *albistriga* Warr., *longistriata* Warr. and *bistriga* Warr. Records for vi, vii, and ix. Now *Sasunaga*.
- Eriopus xanthopera** Hamps.—A few larvae on ferns. Records for xi and xii. Not in Fauna.
- Calogramma festiva** Don.—Larvae very common on Amaryllidaceae in some years. Imagines rare. Records for iii, v, vii, viii, xi and xii.
- Prodenia littoralis** Bsd.—Very common, also larvae which are almost omnivorous. Recorded in i to iii, v and x to xii. Now *litura* F.
- Spodoptera mauritia** Bsd.—Very common. Recorded for all months except v. Larvae feed on grass.
- S. cilium** Guen.—Very common. Recorded for all months except iii to v. Larvae feed on grass. The Fauna includes this as a synonym of *Caradrina exigua* Hbn.
- S. pecten** Guen.—Common, recorded in xi and xii only but may have been overlooked as the previous species. Larvae on grass. The Fauna calls it *Caradinã pectinata* Hamps.
- Athetis placida** Moore—One in vi. The Fauna treats this as a synonym of *Caradina quadripunctata* F.
- Prospalta dolorosa** Wlk.—One larva. Recorded for iii. Included among the synonyms of *Euplexia conducta* Wlk. in the Fauna.
- P. pallidipennis** Warr.—Larvae common on Coreopsis. Records for i, ii, ix and xi. Not in the Fauna.
- P. capensis** Guen.—Common, also larvae on Coreopsis. Records for all months except v and viii. Not in the Fauna.
- Nonagria inferens** Wlk.—Common. Records for i to iii and ix to xi. Now *Sesamia*.
- Chasmina rejecta** F.—Uncommon, recorded in iii and iv. Not in Fauna.

ERASTRIANAE

- Eublemma hemirhoda** Wlk.—Uncommon, records for x only. Now *Polyorycta dimidialis* F.
- E. acontoides** Moore—Common. Records for ix, xi and xii. Now *P. pudica* Snell.
- E. olivacea** Wlk.—Uncommon. Larvae on Brinjal. Records for ii, vii and x. Now *Autoba*.
- E. abrupta** Wlk.—Uncommon. Recorded in xi only. Now *Autoba*.

- E. trifasciata** Moore—Uncommon. Records for vi and vii. Now *Porphyrinia*.
- E. divisa** Moore—Common, also ab. *derufata* Warr. Recorded in iii, iv, x, xi and xii. Now *Porphyrinia anachoresis* Willgr. I have found the larva in Mombasa on a species of Malvaceae.
- E. amabilis** Moore—Fairly common. Records for i, ii, vi, ix, xi and xii. Now *Porphyrinia*.
- E. virginea** Guen.—Not uncommon. Recorded in ix, x, and xi. Now *P. ragusana* Fr.
- Zagira contentaria** Wlk.—One in x. Now *Cerynea*.
- Zagira divisa** Wlk.—Uncommon. Records for viii, x and xi. Now *Oruza*.
- Z. semilux** Wlk.—Uncommon. Records for viii, x and xi. The Fauna includes it with *divisa*.
- Corgatha zonalis** Wlk.—Common. Larvae found feeding on Lichens growing on the trunks of Palm trees. Recorded for all months except i, iv, v and vi.
- Swinhoea vegeta** Swinh.—Rare, recorded in x only.
- Metachrostis incondita** Btlr.—Common. Records for ix, x and xi. Now *Ozarba*.
- M. itwarra** Swinh.—Not common. Records for x and xi. Now *Ozarba*.
- Amyna octo** Guen.—Common, also f. *axis* Guen. Recorded for all months except v and viii. Now *Ilattia*.
- Berresa natalis** Wlk.—Uncommon. Records for viii, ix, xi and xii. The Fauna gives it as a synonym of *B. turpis* Wlk., which it is not.
- Hyelopsis signifera** Wlk.—Common. Records for vii, ix, x and xi. Now *Maliattha*.
- Toxophleps optiva** Swinh.—Rare, recorded in x only. Now *Cophanta funestalis* Wlk.
- Naranga diffusa** Wlk.—Common. Records for x and xi.
- Tarache tropica** Guen.—Uncommon. Records for vii and viii. Now *T. marmoralis* F.

MELICLEPTRIINAE

- Heliothis armigera** Hbn.—Very common, also larvae which are often pests on many garden flowers such as Antirrhinum, Carnations and Roses. Recorded in i, iii, iv and v. Now *Chloridea obsoleta* F.
- Chariclea marginalis** Wlk.—Uncommon. Records for vii, x and xii. Now *Adisura*.

Adisura atkinsoni Moore—Uncommon. Records for iii and iv.

EUTELIANAE

Eutelia jocosatrix Guen.—Common. Records for i, ii, v, vi, ix, x and xi
Now *Bombotelia*.

E. nugatrix Guen.—Common. Records for iv and viii. Now *Bombotelia*.

E. favillatrix Wlk.—Common. Recorded in vi, vii, x and xi.

Chlumetia transversa Wlk.—Common. Recorded in all months from vi to xii.

Eutelia delatrix Guen.—Common also f. *palliatrice* Guen. Larvae on *Eugenia* sp. Records for vi, vii and ix. Now *Phlegetonia*.

Anuga constricta Guen.—Uncommon. Records for x, xi and xii.

Ingura subapicalis Wlk.—Common. Recorded in v to viii and xi. Now *Paectes*.

STICTOPTERINAE

Odontodes aleuca Guen.—Common, but with very little variation. Records for vii and viii.

Stictoptera cuculloides Guen.—Rare, recorded in vi only.

S. illucida Wlk.—Rare. Records for vii and x. Now *Lophoptera*.

SARROTHRIPINAE

Sarrothripa nolalella Wlk.—Bred from larvae off *Lagerstroemia* spp.
Records for v and x. Now *Symitha*.

Nanaguna breviscula Wlk.—Common. Records for iii, ix and xi. The Fauna calls it *Cletthara nigridisca* Hamps.

Plotheia celtis Moore.—Very common, also larvae on *Lagerstroemia indica*. Records for all months except iii, iv and v. Now *Selepa*.

Barasa acronyctoides Wlk.—Common. Recorded in vi and viii to xi.

B. alopha Hamps.—Uncommon. Records for iii only. Not in Fauna.

Gyrtona pusilla Moore—Common. Records for vii and ix. Now *Gyrtothripa*.

ACONTIINAE

Earias fabia Stoll.—Common. Recorded in vii, x and xii. The Fauna treats this and the following three species in the Arctiidae.

E. luteolaria Hamps.—One in xii.

E. cupreoviridis Wlk.—Common. Records for x and xii.

- Paracrama dulcissima** Wlk.—One in i.
- Pseudelydna rufoflava** Wlk.—Rare. Recorded in vii and x.
- Capotena apriformis** Wlk.—One in ix. Now *Aiteta*.
- Carea subtilis** Wlk.—Common. Records for all months but i, iv, vi, vii and xii. Now *C. angulata*.
- Beara dichromella** Wlk.—Uncommon. Larva on *Zizyphus jujuba*. Recorded in x, xi and xii.
- Acontia intersepta** Guen.—Uncommon. Recorded in vii only.
- A. graellsii** Feisth.—One only in xi.

CATOCALINAE

- Nyctipao hieroglyphica** Drury—One beaten from herbage in x.
- N. macrops** L.—One in vi.
- Entomogramma faultrix** Guen.—One in vii.
- Spieredonia helicina** Hbn.—One in ii. Treated by the Fauna as a synonym of *Spirama retorta* L.
- Ophiusa dotata** F.—Uncommon. Records for vii and viii. Now *Lagoptera*.
- O. coronata** F.—Common. Also larvae on *Quisqualis indica*. Records for i, v and vii to xii. Now *Anua*.
- Ercheia cyllaria** Cr.—Not uncommon. Records for vi, x, xi and xii.
- Ophiusa serva** F.—Fairly common. Recorded in v, vi, x and xii. Now *Achaea*.
- O. melicerte** Drury—Common. Larvae on Castor and occasionally on Rose. Recorded in iii, vi and x. Now *Achaea janata* L.
- O. illibata** F.—Uncommon. Records for viii only. Now *Parallelia*.
- O. joviana** Cr.—Rare, in viii only. Now *Parallelia*.
- O. conficiens** Wlk.—Rare, in x only. Now *Parallelia*.
- O. stuposa** F.—Uncommon. Records for vi, vii and ix. Now *Parallelia*. The Fauna treats as a synonym of *algira*.
- O. arctotaenia** Guen.—Rare, in x only. Now *Parallelia*.
- O. algira** L.—Common, also larvae on Castor. Records for vi, vii, and viii. Now *Parallelia*.
- Trigonodes ino** Drury—Common. Larvae on Peepul. Records for iii and iv. Now *Attatha*.

- Grammodes geometrica** F.—Common. Records for ii, iv and xi.
- G. mygdon** Cr.—Common, also in herbage. Records for ix, x and xi.
Now *Euclidisema*.
- Trigonodes hyppasia** Cr.—Common, also in herbage. Records for ii and vii to xii. Larvae on *Rhynchosia minima* (Papilionaceae). Now *Chalciope*.
- T. cephise** Cr.—One in xi. Now *Chalciope*.
- Remigia frugalis** F.—Common, also in herbage. Larvae on grass. Records for all months except iii, iv, v and ix. Now *Mocis*.
- R. archesia** Cr.—Common, also in herbage. Larvae on *Rhynchosia minima*. Records for x, xi and xii. Now *Mocis undata* F.
- Anisoneura hypocyanea** Guen.—Rare. Recorded in ix and x.
- Pericyma glaucinans** Guen.—Not uncommon. Records for x and xi.

PLUSIINAE (NOW PHYTOMETRINAE)

- Plusia jessica** Btlr.—Not uncommon. Larvae on *Antirrhinum* flowers. Records for ii, iii, vii, viii, x, xi and xii. *Plusia* has now been replaced by *Phytometra*.
- P. eriosoma** Dbl.—Common. Larvae on Hollyhock. Records for i, ii, vi, vii, viii, x, xi and xii.
- P. ochreatea** Wlk.—One in ix.
- P. lectula** Wlk.—One in xi.
- P. orichalcea** F.—Common. Recorded in i, ii, iii and x.

NOCTUINAE

- Cosmophila sabulifera** Guen.—Uncommon. Larvae on Malvaceae. Recorded in ix only.
- C. erosa** Hbn.—Common. Larvae on Hollyhock. Records for all months except iii, v and vi.
- Hypocala subsatura** Guen.—Rare, recorded in xi only.
- H. deflorata** F.—Rare, in xii only.
- H. moorei** Btlr.—Uncommon. Records for ix and x.
- Sericea feducia** Stoll.—One in vi.
- Pandesma mundata** Wlk.—Rare, in iii only.
- P. quenavadi** Guen.—Common. Records for iv, v and vi.

- Polydesma umbricola** Bsd.—Common. Larvae on *Albizia* sp. Records for all months except ii, iii and iv.
- P. inangulata** Guen.—Common. Larvae on *Cassia fistula*. Records for vi, viii, x and xi. Now *Ericcia*.
- Hulodes drylla** Guen.—Not uncommon. Records for vi and vii.
- Catephia linteola** Guen.—Uncommon. Recorded in i, ii, iii, vi and xii.
- Sphingomorpha chlorea** Cr.—Uncommon. Recorded in ii and xi.
- Lacera alope** Cr.—One only in xi.
- Plecoptera reflexa** Guen.—One in ix.
- Acantholipes trajectus** Wlk.—Uncommon. Records for ii, iii and xi.
- Gesonia obeditalis** Wlk.—Common, also f. *nigrofusca* Swinh. Records for x, xi and xii.
- Dragana pansalis** Wlk.—Common, also in herbage. Records for i, ii, iv, vi and ix to xii.
- Fodina pallula** Guen.—Common in herbage. Larvae on an unidentified creeper. Recorded in iii, ix and x.
- F. stola** Guen.—Not common. Records for iii, vi and vii.
- Azazia rubricans** Bsd.—Common, also in herbage. Records for i, iii and x to xii.
- Ophideres salamina** F.—One in vii. Now *Maenas*.
- O. materna** L.—Common. Larvae on *Tinospora cordifolia*. Records for ix and xi. Now *Argadesa*.
- O. fullonica** L.—Common. Larvae on *T. cordifolia*. Records for vi, vii, ix, x and xi.
- Calpe emarginata** F.—Uncommon. Records for iv, viii, x and xi.
- C. minuticornis** Guen.—One in xii.

HYBLAEINAE

- Hyblaea puera** Cr.—Common, also larvae. Records for v, vii, viii and ix.

FOCILLINAE

- Zethes ocellata** Moore.—Uncommon. Records for x and xi.
- Egnasia ephyrodalis** Wlk.—Common. Records for vi to x.

Raparna digramma Wlk.—Rare. Records i and xi.

R. imparata Wlk.—Fairly common. Records for v, viii, x and xi.

DELTOIDINAE

Libisosa robustalis Guen.—Common. Recorded in ii and from v to xi.

Nodaria externalis Guen.—One in iii.

Dichromia orosia Cr.—In herbage, uncommon. Records for x only.

Hypena masurialis Guen.—Not uncommon. Recorded in x, xi and xii.

H. reactivitalis Moore—One f. *specularis* Swinh. in xi.

H. cognata Moore—Common. Records for vii, viii, x and xii.

H. indicatalis Wlk.—Not uncommon. Records for i only.

H. ignotalis Wlk.—Fairly common. Records for ii and from vi to xii.

Rhaesena transcissa Wlk.—One in iii.

There remain the following two species, which do not appear in either Hampson's Catalogue of the Lepidoptera Phalaenae or in Seitz' Indian Noctuidae :

Rivula bioculalis Moore—Common. Recorded in xi. The Fauna places this in Acontiinae.

Nolasena ferrifervens Wlk.—One or two every year in vi. Placed in the Sarrothripinae in the Fauna.

(To be continued)